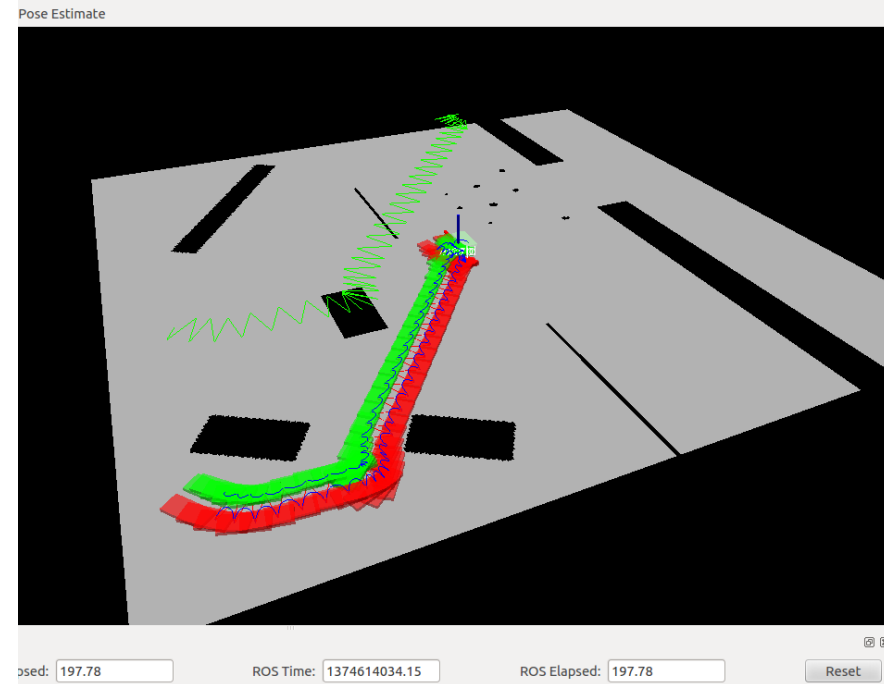


# CoDyCo: foot step and CoM+ZMP planner

**objective:** walking pattern generation on iCub

**subtasks:**

- footstep and ZMP planning\*
  - footstepPlannerManager (ROS)
- CoM and foot trajectory generation\*\*
  - walkingPatternGeneratorManager (ROS)
- parameter adjustment for iCub
- ROS-Yarp integration
  - yarp\_bridge (ROS+YARP)



- \* J. Garimort, A. Hornung, and M. Bennewitz, *"Humanoid Navigation with Dynamic Footstep Plans"*, ICRA 2011
- \*\* N. Perrin, O. Stasse, F. Lamiriaux, E. Yoshida, *"A biped walking pattern generator based on "half-steps" for dimensionality reduction"*, ICRA 2011